ARIZONA AMBIENT AIR QUALITY GUIDELINES

The Arizona Ambient Air Quality Guidelines (AAAQG) are acceptable concentration levels for hazardous air pollutants that are regulated by the State of Arizona. Chemicals that have a * notation are designated Federal Hazardous Pollutants by the U.S. EPA under the Clean Air Act (section 112). Hazardous, air pollutants are generally defined as those pollutants that are known or suspected to cause serious health problems. These air pollutants are emitted by a variety of industrial sources and motor vehicles.

The listed 1-hour, 24-hour, and annual limits are designed to protect public health by limiting the risks associated with the release of toxic air contaminants.

Unless otherwise notes, measurements are always in Fg/M³

	Substance Name	CAS #	Formula	1-Hour	24-Hour	Annual
*	Acetaldehyde	75-07-0	CH_3CHO	2,300	1,400	$5.0x10^{-1}$
	Acetic Acid	64-19-7	CH_3COOH	562.5	187.5	
	Acetone	67-64-1	C_3H_6O	20,000	14,000	
*	Acetonitrile	75-05-8	C_2H_3N	880	560	
*	Acetophenone	98-86-2	C_8H_8O	150	40	
*	Acrolein	107-02-8	C_3H_4O	6.7	2	
*	Acrylamide	79-06-1	C_3H_5NO	5.0	$2.4x10^{-1}$	$1.3x10^{-3}$
*	Acrylic Acid	79-10-7	$C_3H_4O_2$	900	240	
*	Acrylonitrile	107-13-1	C_3H_3N	21	5.5	$1.5x10^{-2}$
	Aldrin	309-00-2	$C_{12}H_8Cl_6$	$3.8x10^{-1}$	$1.0x10^{-1}$	$2.8x10^{-4}$
	Aliphatic Naptha	8030-30-6	---		2,600	
	Allyl Alcohol	107-18-6	C_3H_6O	83	40	
	Aluminum Oxide	1344-28-1	Al_2O_3	450	150	
	Ammonia	7664-41-7	NH_3		140	
*	Aniline	65-53-3	C_6H_7N	170	66	$1.8x10^{-1}$
*	Antimony	7440-36-0	Sb	15	4.0	
*	Arsenic	7440-38-2	As	$2.8x10^{-1}$	$7.3x10^{-2}$	$2.0x10^{-4}$
*	Arsenic Pentoxide	1303-28-2	As_2O_5	$2.8x10^{-1}$	$7.3x10^{-2}$	$2.0x10^{-4}$
*	Arsenic Trioxide	1327-53-3	As_2O_3	$2.8x10^{-1}$	$7.3x10^{-2}$	$2.0x10^{-4}$
*	Arsine	7784-42-1	AsH_3	$2.8x10^{-1}$	$7.3x10^{-2}$	$2.0x10^{-4}$
	Azinphos	86-50-0	$C_{10}H_{12}N_3O_3PS$	5.0	1.6	
	Barium	7440-39-3	Ba	15	4.0	
	Barium Oxide	1304-28-5	BaO	15	4.0	

	Barium Sulfate-td	7727-43-7	$BaSO_4$	300	80	
	Barium Sulfate-rf	7727-43-7	$BaSO_4$	150	40	
	Substance Name	**CAS #**	**Formula**	**1-Hour**	**24-Hour**	**Annual**
*	Benzene	71-43-2	C_6H_6	630	51	$1.4x10^{-1}$
*	Benzidine	92-87-5	$C_{12}H_{12}N_2$	$2.1x10^{-1}$	$5.5x10^{-3}$	$1.5x10^{-5}$
*	Benz(a)anthracene	56-55-3	$C_{18}H_{12}$	$7.9x10^{-1}$	$2.1x10^{-1}$	$5.7x10^{-4}$
*	Benzo(a)Pyrene	50-32-8	$C_{20}H_{12}$	$7.9x10^{-1}$	$2.1x10^{-1}$	$5.7x10^{-4}$
*	Benzyl Chloride	100-44-7	C_7H_7Cl		37.7	12
*	Beryllium	7440-41-7	Be	$6.0x10^{-2}$	$1.6x10^{-2}$	$5.0x10^{-4}$
*	Bis(2-chlorethyl) Ether	111-44-4	$C_4H_8Cl_2O$	38	1.6	$4.3x10^{-3}$
*	Bis(chloromethyl) Ether	542-88-1	$C_4H_8Cl_{20}$	$5.3x10^{-4}$	$1.4x10^{-4}$	$3.8x10^{-7}$
*	Bis(2-ethylhexyl) Phthalate	117-81-7	$C_{24}H_{38}O_4$	83	4.0	$3.4x10^{-1}$
*	Bismuth Oxide	1304-76-3	Bi_2O_3	150	40	
	Borates	----	----	23	7.5	
	Boron	7440-42-8	B	23	7.5	
	Boron Oxide	1303-86-2	B_2O_3	170	80	
	Boron Trichloride	10294-34-5	BCI_3		38	
	Boron Trifluoride	7637-07-2	BF_3		23	
	Bromodchloromethane	75-27-4	$CHBrCl_2$	36	9.5	$2.6x10^{-2}$
*	Bromoform	75-25-2	$CHBr_3$	150	40	
*	Bromomethane	74-83-9	CH_3Br	500	160	
*	1,3-Butadiene	106-99-0	C_4H_6	7.2	1.9	$6.7x10^{-2}$
	n-Butanol	71-36-3	C_4H_9OH	3,800	2,400	
	2-Butoxyethanol	111-76-2	$C_6H_{14}O_2$	3,600	900	
	1-Butyl Acetate	123-86-4	$C_6H_{12}O_2$		5,300	
	n-Butyric Acid	107-92-6	$C_4H_8O_2$	300	80	
*	Cadium	7440-43-9	Cd	1.7	$1.1x10^{-1}$	$2.9x10^{-4}$
	Calcium Carbonate-td	1317-65-3	$CaCO_3$	450	120	
	Calcium Carbonate-rf	1317-65-3	$CaCO_3$	150	40	
	Calcium Fluoride	7789-74-5	CaF_2	76	20	
	Calcium Oxide	1305-78-3	CaO	150	40	
*	Captan	133-06-2	$C_9H_8Cl_3NO_2S$	120	40	1

*	Carbaryl	63-25-2	$C_{12}H_{11}NO_2$	80	40	
	Carbon Black	13333-86-4	C		26	
	Substance Name	**CAS #**	**Formula**	**1-Hour**	**24-Hour**	**Annual**
*	Carbon Disulfide	75-15-0	CS_2	91	24	
*	Carbon Tetrachloride	56-23-5	CCl_4	49	13	$3.6x10^{-2}$
	Carbonyl Fluoride	353-50-4	CF_2O	120	40	
*	Carbonyl Sulfide	463-58-1	COS	120	40	
	Cellulose Nitrate-td	9004-70-0	$C_{12}H_{16}O_{18}N_4$	450	120	
	Cellulose Nitrate-rf	9004-70-0	$C_{12}H_{16}O_{18}N_4$	150	40	
*	Chlorine	7782-50-5	Cl_2	69	23	
*	Chlorobenzene	108-90-7	C_6H_5Cl		2,560	
*	2-Chloro-1,3-butadiene	126-99-8	$(C_4H_5Cl)n$	1100	280	
*	Chlorodane	57-74-9	$C_{10}H_6Cl_8$	17	1.1	$2.9x10^{-3}$
*	Chloroform	67-66-3	$CHCl_3$	60	16	$4.3x10^{-2}$
*	Chloromethane(Methyl Chloride)	74-87-3	CH_3Cl	36	9.5	$2.6x10^{-2}$
*	3-Chloropropene	107-05-1	C_3H_5Cl		23.5	
	Chlorothalonil	75-27-4	$CHBrCl_2$	60	16	$4.3x10^{-2}$
*	Chromic Oxide	1333-82-0	Cr_2O_3	15	4.0	
*	Chromium	7440-47-3	Cr	11	3.8	
*	Chromium VI	7440-47-3	Cr(VI)	$1.1x10^{-1}$	$2.9x10^{-2}$	$8.0x10^{-5}$
	Copper-Fume	7440-50-8	Cu	2.3	$7.5x10^{-1}$	
*	Cresols	1319-77-3	C_7H_8O	640	170	
	Cuprous Chloride	7758-89-6	Cu_2O	23	7.5	
	Cuprous Oxide	1317-39-1	CuO	30	8	
	Cupric Chloride	1344-67-8	$CuCl_2$	23	7.5	
	Cupric Oxide	1317-38-0	CuO	30	8	
	Diacetone Alcohol	123-42-2	$C_6H_{12}O_2$	3,000	1,900	
	Dichloeodiphenyl-trichloroethane (DDT)	50-29-3	$C_{14}H_9Cl_5$	25	5.1	$1.4x10^{-2}$
	DDD	72-54-8	$C_{14}H_{10}Cl_4$	25	5.1	$1.4x10^{-2}$
*	DDE	72-55-9	$C_{14}H_8Cl_4$	25	5.1	$1.4x10^{-2}$
	Diazinon	333-41-5	$C_{12}H_{21}O_3PSN_2$	2.4	$8.0x10^{-1}$	

*	Dibenzo(a,h)anthracene	53-70-3	$C_{22}H_{14}$		$2.1x10^{-1}$	$5.7x10^{-4}$
	Diborane	19287-45-7	B_2H_6		$7.5x10^{-1}$	
	Dibromochloromethane	124-48-1	$CHBr_2Cl$	36	9.5	$2.6x10^{-2}$
	Substance Name	**CAS #**	**Formula**	**1-Hour**	**24-Hour**	**Annual**
*	1,2-Dibromo-3-chloropropane	96-12-8	$C_3H_5Br_2Cl$	$3.0x10^{-1}$	$7.9x10^{-2}$	$4.0x10^{-3}$
*	1,2-Dibromoethane	106-93-4	$C_2H_4Cl_2$	$9.1x10^{-2}$	$2.4x10^{-2}$	$6.7x10^{-5}$
	1,2-Dichlorobenzene	95-50-1	$C_6H_4Cl_2$	9,100	2,400	
*	1,4-Dichlorobenzene	106-46-7	CCl_2F_2	250	66	$1.8x10^{-1}$
	1,4-Dichlorodifluoromethane	75-71-8	$C_2H_4Cl_2$	52,000	39,000	
*	1,1-Dichloroethane	75-34-3	$C_2H_4Cl_2$	8,400	3,200	8.8
*	1,2-Dichloroethane	107-06-2	$C_2H_4Cl_2$	53	14	$3.8x10^{-2}$
*	1,1-Dichloroethane	75-35-4	$C_2H_2Cl_2$	420	110	3.0
	1,2-Dichloroethane	156-59-2	$C_2H_2Cl_2$	23,800	6,300	
*	Dichloromethane	75-09-2	CH_2Cl_2	7,600	2,000	5.6
*	1,2-Dichloropropane	78-87-5	$C_3H_6Cl_2$	4,300	2,800	
	2,4-Dichlorophenol	120-83-2	$C_6H_4Cl_{20}$	6.0	1.6	
	Dichlorosilane	4109-96-0	$SiCL_2H_2$		5.3	
	Dicofol	115-32-2	$C_{14}H_9Cl_5O$	9	3.0	$8x10^{-2}$a
	Dieldrin	60-57-1	$C_{12}H_8Cl_6O$	$4.2x10^{-1}$	$1.1x10^{-1}$	$2.9x10^{-4}$
	Diethylene Glycol Monobutyl Ether Acetate	124-17-4	$C_{10}H_{20}O_4$	720	190	
	Diethylene Glycol Monobutyl Ether			490	130	
	Diethylene Triamine	111-40-0		80	30	
	Diethyl Phthalate	84-66-2	$C_{12}H_{14}O_4$	83	40	
	Diethyl Telluride	627-54-3	$C_4H_{10}Te$		$7.5x10^{-1}$	
	Dimethoate	60-51-5	$C_5H_{12}NO_4$ PS	$3.0x10^{-1}$	$1.0x10^{-1}$	
*	Dimethylnitrosoamine	62-75-9	$C_2H_6N_2O$	$2.5x10^{-1}$	$6.6x10^{-2}$	$1.8x10^{-4}$
*	Di-n-butyl Phthalate	84-74-2	$C_{16}H_{22}O_4$	83	40	
	Di-n-Octyl Phthalate	117-84-0	$C_{24}H_{38}O_4$	80	40	
*	2,4-Dinitrophenol	51-28-5	$C_6H_4N_2O_5$	6.0	1.6	
*	2,4-Dinitrotoluene	121-14-2	$C_7H_6N_2O_4$	42	5.5	$1.5x10^{-2}$
*	1,4-Dioxane	123-91-1	$C_4H_8O_2$	3,000	150	$4.0x10^{-1}$

*	Diphenylamine	122-39-4	$C_{12}H_{11}N$	170	79	
*	1,2-Diphenylhydrazine	122-66-7	$C_{12}H_{12}N_2$	9.1	2.4	$6.7x10^{-3}$
*	N,N-Dipropyl-4-trifluro methyl-2,6-Dinitroaniline	1582-09-8	$C_{10}H_9N_3OF_3$	540	180	$5x10^{-1}$a
	Substance Name	**CAS #**	**Formula**	**1-Hour**	**24-Hour**	**Annual**
	Dithane	8018-01-7	$C_8H_{12}N_4S_8MnZ$ n	240	80	
	Endosulfan	115-29-7	$C_9H_6Cl_6O_3S$	2.4	$8.0x10^{-1}$	
*	Endrin	72-20-8	$C_{12}H_8Cl_6O$	2.5	$7.9x10^{-1}$	
*	Epichlorohydrin	106-89-8	C_3H_5ClO	170	63	$4.7x10^{-1}$
	Ethanol	64-17-5	C_2H_5OH		14,000	
	2-Ethoxy Ethyl Acetate	111-15-9	$C_6H_{12}O_3$	800	200	
	Ethyl Acetate	141-78-6	$C_4H_8O_2$	42,000	11,000	
*	Ethylbenzene	100-41-4	C_8H_{10}	4,500	3,500	
	Ethyl-3-Ethoxy Propionate	763-69-9	$C_7H_{14}O_3$	380	240	
*	Ethylene Glycol Dimethyl Ether	110-71-4	$C_4H_{10}O_2$	490	130	
*	Ethylene Glycol Monopropyl Ether	2807-30-9	$C_5H_{12}O_2$	720	190	
*	Ethylene Oxide	75-21-8	C_2H_4O	14	3.7	$1.0x10^{-2}$
*	Ethyl Parathion	56-38-2	$C_{10}H_{14}NO_5PS$	2.5	$8.0x10^{-1}$	
*	Fiberglass	14808-60-7	----	150 g	40 g	
	Fluorine	7782-41-4	F_2	6.0	1.6	
*	Formaldehyde	50-00-0	CH_2O	20	12	$8.0x10^{-2}$
	Formic Acid	64-18-6	CH_2O_2	270	71	
	Glycerol	56-81-5	$C_3H_8O_3$	225	75	
	Glycol Monobutylether Acetate	112-07-2	$C_{10}H_{16}O_3$	720	190	
*	Heptachlor	76-44-8	$C_{10}H_5Cl_7$	1.5	$4.0x10^{-1}$	$1.1x10^{-3}$
	Heptachlor Epoxide	1024-57-3	$C_{10}H_5Cl_{70}$	7.6x10	$2.0x10^{-1}$	$5.4x10^{-4}$
	2-Heptanone	110-43-0	$C_7H_{14}O$		3,500	
	n-Heptane	142-82-5	C_8H_{18}	17,000	11,000	
*	Hexchlorobenzene	118-74-1	C_6Cl_6	3.7	$9.9x10^{-1}$	$2.7x10^{-3}$
*	Hexachlorobutadine	87-68-3	C_4Cl_6	7.2	1.9	$6.7x10^{-2}$
*	Hexchlororcyclohexane (all isomers)	58-89-9	$C_6H_6Cl_6$	1.1	$3.0x10^{-1}$	$8.1x10^{-4}$

*	Hexachlorocyclopentadine	77-47-4	C_5Cl_6	2.5	$7.9x10^{-1}$	
*	Hexachloroethane	67-72-1	C_2Cl_6	300	79	$3.4x10^{-1}$
*	n-Hexane	110-54-3	C_6H_8	5,300	1,400	
*	Hydrofluoric Acid	7664-39-3	HF	562.5	187.5	
	Substance Name	**CAS #**	**Formula**	**1-Hour**	**24-Hour**	**Annual**
*	Hydrogen Chloride	7647-01-0	HCI	210	56	7.0 r
*	Hydrogen Cyanide	74-90-8	HCN	40	40	
	Hydrogen Sulfide	7783-06-4	H_2S	180	110	
	1-Hydroxy-2-Propanone	116-09-6	$C_3H_6O_2$	150	40	
	Iron Compounds-soluble	---	---	22.5	7.5	
	Iron Compounds -insoluble	---	---	150	40	
	Iron (II) Chloride	7758-94-3	$FeCl_2$	30	7.9	
	Iron (III) Chloride	7705-08-0	$FeCl_3$	30	7.9	
	Iron (II, III) Oxide	1309-37-1	Fe_3O_4	83	40	
	Iron (III) Oxide	1309-37-1	Fe_2O_3	110	38	
	Isobutyl Acetate	110-19-0	$C_6H_{12}O_2$		5,300	
	Isobutyl Alcohol	78-83-1	$C_4H_{10}O$	1,900	1,200	
	Isobutyl Isobutyrate	97-85-8	$C_8H_{16}O_2$		1,100	
	Isopropanol	67-63-0	$CH_3CHOHCH_3$		7,400	
	Isopropyl Acetate	108-21-4	$C_5H_{10}O_2$	9,900	7,500	
	Magnesium Fluoride	7783-40-6	MgF_2	76	20	
	Magnesium Oxide-td	1309-48-4	MgO	300	80	
	Magnesium Oxide-rf	1309-48-4	MgO	150	40	
	Magnesium Silicate	1343-90-4	$MgSi_3O_8$	60	16	
*	Manganese - metal, fume	7439-96-5	Mn	25	8.0	
*	Manganese Dioxide	1313-13-9	MnO_2	25	8.0	
	Malathion	121-75-5	$C_{10}H_{19}O_6PS_2$	240	80	
*	Mercury	7439-97-6	Hg	1.5	$4.0x10^{-1}$	
*	Methanol	67-56-1	CH_3OH	2,600	2,100	
	Methomyl	16752-77-5	$C_5H_{10}N_2O_2S$	76	20	
*	Methoxychlor	72-43-5	$C_{16}H_{15}Cl_3O_2$	150	40	

	1-Methoxy-2-Propanol Acetate	108-65-6		720	190	
	Methyl n-Butyl Ketone	591-78-6	$C_6H_{12}O$	600	160	
*	3-Methylcholanthrene	56-49-5	$C_{21}H_{16}$	$7.9x10^{-1}$	$2.1x10^{-1}$	$5.7x10^{-4}$
*	Methyl Ethyl Ketone [2-Butanone]	78-93-3	C_4H_8O	7,400	4,700	
	Substance Name	**CAS #**	**Formula**	**1-Hour**	**24-Hour**	**Annual**
*	4,4'-Methylene-bis-2-chloroanaline	101-14-4	$C_{13}H_{12}Cl_2N_2$	6.4	1.7	
*	Methylhydrazine	60-34-4	CH_6N_2	3.0	$8.0x10^{-1}$	$2.2x10^{-3}$
	Methyl Parathion	298-00-0	$C_8H_{10}NO_5PS$	4.8	1.6	
	a-Methylstyrene	98-83-9	C_9H_{10}	4,000	1,900	
	Methyldenum Trioxide	1313-27-5	MoO_3	83	40	
	Myclobutanil	88671-89-0		240	80	
*	Napthalene	91-20-3	$C_{10}H_8$	630	400	
*	Nickel-metal, fume	7440-02-0	Ni	5.7	1.5	$4.0x10^{-3}$
*	Nickel Acetate	373-02-4	$C_4H_6O_4Ni$	2.25	$7.5x10^{-1}$	
	Nitric Acid	7697-37-2	HNO_3	112.5	37.5	
*	Nitrobenzene	98-95-3	$C_6H_5NO_2$	83	40	
	Nitrogen Oxide	10102-43-9	NO	690	230	
*	2-Nitropropane	79-46-9	$C_3H_7NO_2$	580	280	$7.7x10^{-1}$
*	N-Nitrosodiethylamine	55-18-5	$C_4H_{10}N_2O$	$1.5x10^{-1}$	$4.0x10^{-2}$	$1.1x10^{-4}$
*	N-Nitrosodimethylamine	62-75-9	$C_2H_8N_2O$	$2.5x10^{-1}$	6.6	$1.8x10^{-4}$
*	N-Nitrosopyrrolidine	930-55-2	$C_4H_8N_2O$	3.0	$8.0x10^{-1}$	$2.2x10^{-3}$
*	N-Nitroso-di-n-butylamine	924-16-3	$C_8H_{18}N_2O$	1.2	$3.2x10^{-1}$	$8.7x10^{-4}$
	Octane	111-65-9	C_8H_{12}	11,000	2,900	
	Oxoheptyl Acetate	90438-79-2		7,900	5,600	
	Oxohexyl Acetate			720	190	
	Pentachlorobenzene	608-93-5	C_6HCl_5	15	4.0	
*	Pentachloronitrobenzene	82-68-8	$C_6Cl_5NO_2$	6.8	1.8	$4.9x10^{-3}$
*	Pentachlorophenol	87-86-5	C_6HCl_5O	13	4.0	
	Pentanal	110-62-3	$C_5H_{10}O$	5,300	1,400	
	Pentane	109-66-0	C_6H_{12}	13,000	3,500	

	2-Pentanone	107-87-9	$C_5H_{10}O$	7,300	4,200	
*	Phenol	108-95-2	C_6H_6O	320	150	
*	p-Phenylenediamine	106-50-3	$C_6H_8N_2$	3.0	$7.9x10^{-1}$	
*	Phenylmercuric Acetate	62-38-4	C_8H_8HgO	$2.5x10^{-1}$	$7.9x10^{-2}$	
	Phosmet	732-11-6	$C_{11}H_{12}NO_4PS_2$	240	80	
	Substance Name	**CAS #**	**Formula**	**1-Hour**	**24-Hour**	**Annual**
	Phosphamidon	297-99-4	$C_{10}H_{19}ClNO_5P$	$3.0x10^{-1}$	$1.0x10^{-1}$	
*	Phosphine	7803-51-2	PH_3		3.0	
	Phosphoric Acid	7664-38-2	PH_3O_4		7.5	
	Phosphorous Pentafluoride	7647-19-0	PF_5		7.5	
	Phosphorous Pentadsulfide	1314-80-3	P_2S_5	24	7.9	
	Phosphorous Pentoxide	1314-56-3	P_4O_{10}	24	7.9	
*	Polychlorinated Biphenyls [PCBx]	1336-36-3	---	$3.0x10^{-1}$	$7.9x10^{-2}$	$6.1x10^{-4}$
	Potassium Carbonate	584-08-7	K_2CO_3	450	120	
	Potassium Fluoride	7789-23-3	KF	76	20	
	Potassium Hydroxide	1310-58-3	KOH	60	16	
	Propane-asphyxiant	74-98-6	C_3H_8		14,000	
	n-Propanol	71-23-8	C_3H_8O	5,200	4,000	
	Pronamide	23950-58-5	$C_{12}H_{11}Cl_2NO$	19	5.1	$1.4x10^{-2}$
	Propionic Acid	79-09-6	$C_3H_6O_2$	380	240	
	n-Propyl Acetate	109-60-4	$C_5H_{10}O_2$	8,800	6,700	
*	Propylene Gylcol Monomethyl Ether	107-98-2	$C_4H_{10}O_2$	4,500	2,900	
*	Propylene Oxide	75-56-9	CH_3CHOCH_2	1,500	400	2.0
	Pyridine	110-86-1	C_5H_5N	250	120	
*	Selenium	7782-49-2	Se	6.0	1.6	
	Silane	7803-62-5	SiH_4		5.3	
	Silica-amorphous fumed	7631-86-9	SiO_2	180	48	
	Silver	7440-22-4	Ag	$3.0x10^{-1}$	$7.9x10^{-2}$	
	Sodium Aluminofluoride	15096-52-3	$3NaAlF_6$	60	20	
	Sodium Fluoride	7681-49-4	NaF	76	20	

	Sodium Hydroxide	1310-73-2	$NaOH$	45	15	
	Sodium Sulfate	7757-82-6	Na_2SO_4	150	50	
	Strychnine	57-24-9	$C_{21}H_{22}N_2O_2$	3.8	1.2	
*	Styrene-includes dimers	100-42-5	C_8H_8	3,500	1,700	
	Sulfuric Acid	7664-93-9	H_2SO_4	22.5	7.5	
	Substance Name	**CAS #**	**Formula**	**1-Hour**	**24-Hour**	**Annual**
	Talc	14807-96-6	$H_2O_3Si_{3/4}Mg$		$5x10^{+6}$	
	1,2,4,5-Tetrachloro-benzene	95-94-3	$C_6H_2Cl_4$	15	9.0	
*	2,3,7,8-Tetrachloro-dibenzo-p-Dioxin	1746-01-6	$C_{12}H_4Cl_4O_2$	$4.2x10^{-2}$	$1.1x10^{-2}$	$2.4x10^{-5}$
*	1,1,2,2-Tetrachloro-ethane	79-34-5	$C_2H_2Cl_4$	33	8.8	$2.4x10^{-2}$
*	Tetrachloroethene	127-18-4	C_2Cl_4	11,000	770	2.1
*	Tetraethyl Lead	78-00-2	C_8H_20Pb	2.5	$5.9x10^{-1}$	
	Tetrafluoromethane	75-73-0	CF_4		300	
	Thallium	7440-28-0	Tl	3.0	$7.9x10^{-1}$	
*	Thorium 232	7440-29-1	Th	70 c	2.9 c	$8x10^{-3}$ c
	Titanium Dioxide-td	13463-67-7	TiO_2	300	80	
	Titanium Dioxide-rd	13463-67-7	TiO_2	150	40	
*	Toluene	108-88-3	C_7H_8	4,700	3,000	
*	Toxaphene	8001-35-2	$C_{10}H_{10}Cl_8$	8.3	1.5	$4.0x10^{-3}$
*	1,2,4-Trichlorobenzene	120-82-1	$C_6H_3Cl_3$	1,200	320	
*	1,1,1-Trichloroethane	71-55-6	$C_2H_3Cl_3$	20,000	1,100	
*	1,1,2-Trichloroethane	79-00-5	$C_2H_3Cl_3$	750	30	$8.2x10^{-2}$
*	Trichloroethene	79-01-6	C_2HCl_3	1,100	280	$7.6x10^{-1}$
	Trichlorofluoromethane	75-69-4	CCl_3F	220,000	59,000	
*	2,4,5-Trichlorophenol	95-95-4	$C_6H_3Cl_3O$	13,000	3,500	
*	2,4,6-Trichlorophenol	88-06-2	$C_6H_3Cl_3O$	600	160	$4.3x10^{-1}$
	Trichlorotrifluoroethane	76-13-1	$C_2Cl_3F_3$	79,000	60,000	
	Triethylenetetramine	112-24-3	$C_6H_{18}N_2$	760	200	
	1,2,4 Trimethylbenzene	95-63-6	C_9H_{12}		1,422	
	1,3,5 Trimethylbenzene	108-67-8	C_9H_{12}		1,090	

	2,2,4 Trimethyl-1,3-pentanediol Isobutyrate	25265-77-4	$C_{12}H_{24}O_3$	300	80	
	Tungsten Trioxide	1314-35-8	WO_3	83	40	
	Uranium 238-soluble	7440-61-1	U	1.5	$4.0x10^{-1}$	
	Uranium 238-insoluble	7440-61-1	U	7.5	2.0	
	Vanadium	7440-62-2	V	1.5	0.4	
	Substance Name	**CAS #**	**Formula**	**1-Hour**	**24-Hour**	**Annual**
*	Vinyl Chloride	75-01-4	C_2H_3Cl	17	4.4	$1.2x10^{-2}$
*	Xylenes-mixed isomers	1330-20-7	C_8H_{10}	5,500	3,500	
*	Xylene (meta)	108-38-3	C_8H_{10}	5,500	3,500	
*	Xylene (ortho)	95-47-6	C_8H_{10}	5,500	3,500	
*	Xylene (para)	106-42-3	C_8H_{10}	5,500	3,500	
	Zinc Chloride	7646-85-7	$ZnCl_2$	17	8.0	
	Zinc Oxide-fume	1314-13-2	ZnO	83	40	
	Zinc Oxide-rd	1314-13-2	ZnO	150	40	
	Zinc Oxide-td	1314-13-2	ZnO	300	80	
	Zinc Stearate	557-05-1	$Zn(C_{18}H_{25}O_2)_2$		350	
	Zirconium	7440-67-7	Zr	110	38	
	Zirconium Carbide	12070-14-3	ZrC_2	150	40	
	Zirconium Oxide	1314-23-4	ZrO_2	110	38	

a - Limited by assuming entire exposure in a 24-hour period.
c - Micro curies per cubic meter (Fc/m^3)
f - Fibers/m^3 - includes fibers < 3 Fm diameter and > or = 10 Fm length
* - Species on CAA 189 list.
td - Total Dust
rf - Respirable Fraction